CCS Semi-Automated Screening Results

SDG MF9M48 **Lab** DATAC **Case** 45299 **Contract** EPW09036 **Client** EPA Region 6 **SOW** ISM01.3 **Stage** 2b **Tracking ID** 216765 **Version** 8.6
DRD 06/25/2015 **LRD** 06/04/2015 **Mailed** 06/26/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Manual Defect Detail

METHOD = ICP MS

Defect Analysis	Column ID	Analyte	Peak	Peak Comparison	Reported/Recalculated Value	Expected Value
Test Defect MD7.5 **Forms(s) 12 is (are) missing.** see attached **Associated Samples:** **Comments:** **Form 12 on page 78 reports the Preparation Date as 6/10. However, the raw prep data on page 295, reports the date as 6/11.**						
MF9M48						

ISM 3050B PHYSICAL DESCRIPTION

Sample ID	Matrix	Method	Prep Date	Amount Sample Used(g)	Final Sample Volume	PH	Color/Clarity/Texture Before Color	Before Texture	After Color	After Clarity	Init.
PBS1	ASTM Type II H_2O	3050B	06/10/2015	NA	100 mL	NA	Colorless	Clear	Colorless	Clear	SW
LCS1	ASTM Type II H_2O			NA			Colorless	Clear	Colorless	Clear	
MF9M48	Soil			1.2643			Brown	Medium	Colorless	Clear	
MF9M48S				1.2597			Brown	Medium	Colorless	Clear	
MF9M48D				1.2635			Brown	Medium	Colorless	Clear	
MF9M49				1.0741			Brown	Medium	Colorless	Clear	
MF9M50				1.1989			Brown	Medium	Colorless	Clear	
MF9M51				1.1200			Brown	Medium	Colorless	Clear	
MF9M52				1.3324			Brown	Medium	Colorless	Clear	
MF9M54				1.3041			Brown	Medium	Colorless	Clear	
MF9M55				1.1946			Brown	Medium	Colorless	Clear	
MF9M56				1.0066			Brown	Medium	Colorless	Clear	
MF9M57				1.1361			Brown	Medium	Colorless	Clear	
MF9M58				1.1413			Brown	Medium	Colorless	Clear	
MF9M59				1.3556			Brown	Medium	Colorless	Clear	
MF9M60				1.3008			Brown	Medium	Colorless	Clear	
MF9M61				1.1549			Brown	Medium	Colorless	Clear	
MF9M62				1.2350			Brown	Medium	Colorless	Clear	
MF9M63				1.3993			Brown	Medium	Colorless	Clear	
MF9M64				1.1748			Brown	Medium	Colorless	Clear	
MF9M65				1.3484			Brown	Medium	Colorless	Clear	
MF9M66				1.3355			Brown	Medium	Colorless	Clear	
MF9M67				1.3095			Brown	Medium	Colorless	Clear	
MF9M68	↓	↓	↓	1.2752	↓	↓	Brown	Medium	Colorless	Clear	↓

PREPARED BY:
Shane Stewart
Shaina Wiest

START DATE/TIME:
06/10/2015 11:26
END DATE/TIME:
06/12/2015 08:30
WORKORDER(S):
1515632

SDG:
MF9M48
CASE:
45299
METHOD/MATRIX:
3050B/Soil
BATCH:
5372
HBN #:
150266
MOD:
NA

QC ID	QC TYPE	MATRIX SOURCE	SPIKE SOURCE	PIPETTE ID	VOLUME SPIKED	INITIALS	Method Reagents	
PBS1	PBS	ASTM Type II H_2O	NA	NA	NA	SW	1:1 HNO_3 Baker LOT #:	0000104117
LCS1	LCS	ASTM Type II H_2O	27708	WR-22	2000 µl	↓	CONC. HNO_3 Baker LOT #:	0000104117
MF9M48S	MS	MF9M48	24679 24680	WR-22	200 µl		30% H_2O_2 Macron LOT #:	0000086427
MF9M48D	MD	MF9M48	NA	NA	NA	↓	CONC. HCl EMD LOT #:	54310

BALANCE ID:

102683

Samples and QCs prepared by Shaina Wiest, supervised by Shane Stewart. Samples weighed and transferred into 100 mL flat-bottom tubes. QCs prepared as indicated above. 10 mL 1:1 HNO_3 added to all. Samples covered and placed on hotblock at ~95°C for 10 minutes, removed from heat, and allowed to cool. 5 mL concentrated HNO_3 added to all. Samples returned to hotblock for 30 minutes, removed from heat, and allowed to cool. Samples were returned to heat and allowed to reduce to 5 mL. Temperature was checked with thermometer 12207430, which read 95.2 °C. Samples removed from heat. 2 mL ASTM Type II H_2O and 3 mL 30% H_2O_2 added, returned to hotblock, and heated until bubbling reaction subsided. Samples removed from heat. An additional 1 mL of H_2O_2 was added to all samples and heated until effervesence subsided. Samples removed from heat and allowed to cool. Samples returned to heat and allowed reduce to 5 mL. Samples removed from heat and allowed to cool. 10 mL conc. HCl added. Samples returned to hotblock for 15 minutes, removed from heat, and allowed to cool. Samples diluted to 100 mL final volume with ASTM Type II H_2O. Samples inverted several times to mix. Samples transferred to 50 mL tubes for analysis.

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